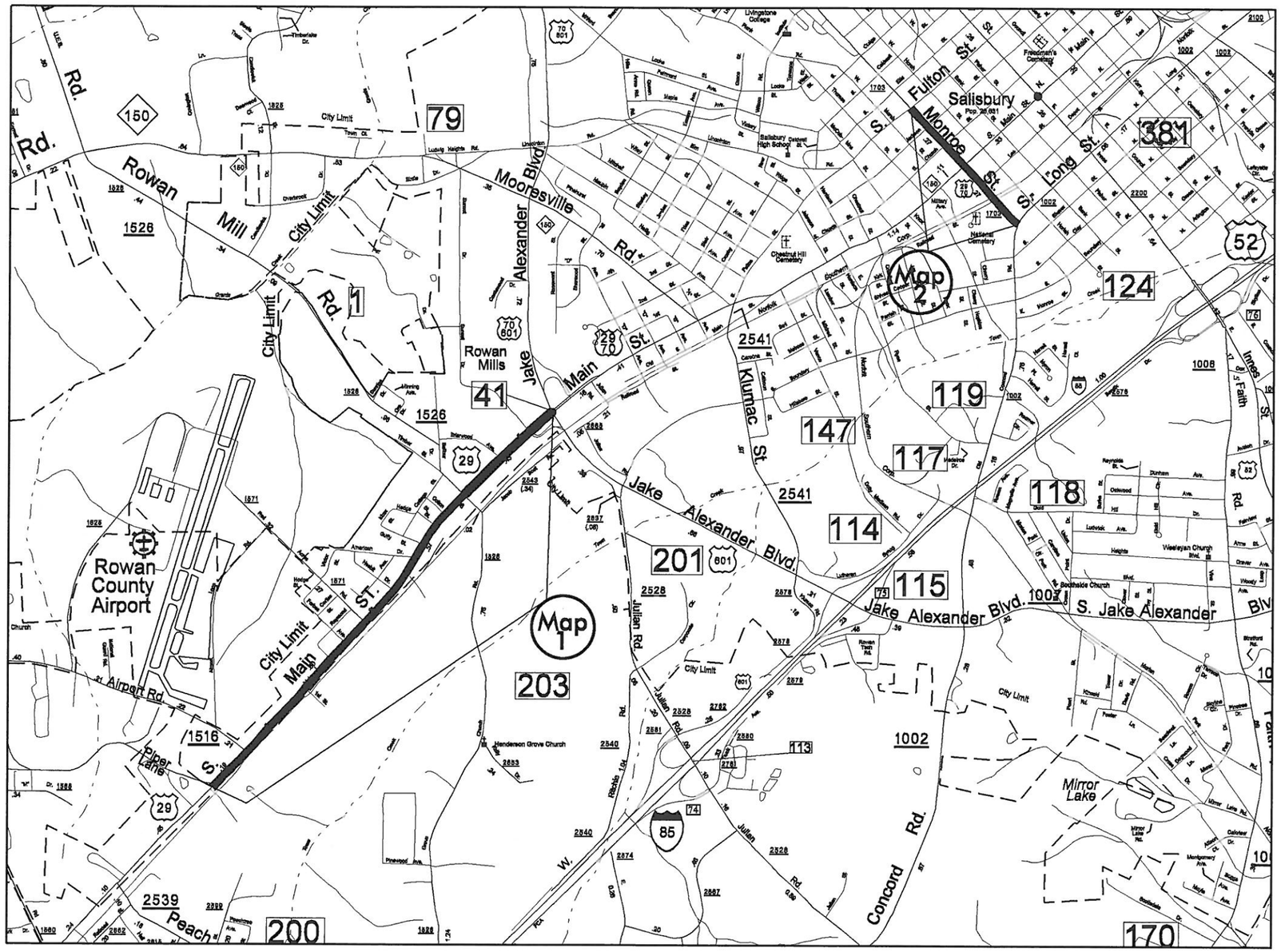
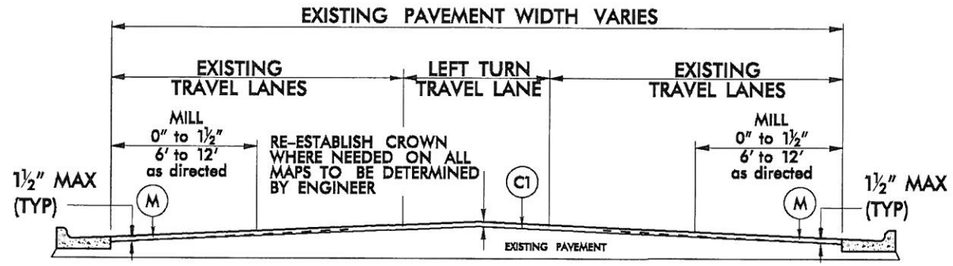


MAP 1
US 29 SOUTH MAIN STREET

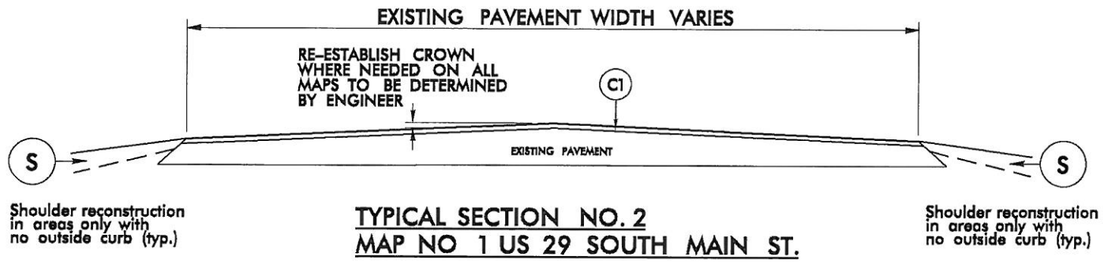
MAP 2
SR 1703 MONROE STREET

ROWAN COUNTY

NORTH CAROLINA



TYPICAL SECTION NO. 1
MAP NO 1 US 29 SOUTH MAIN ST.



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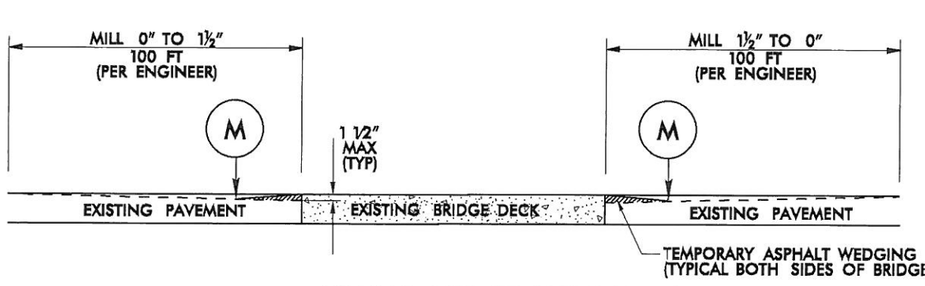
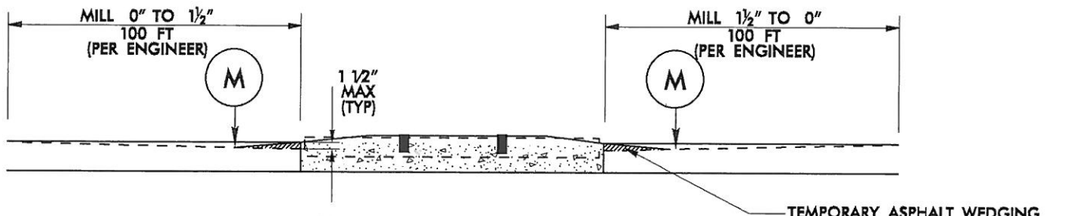
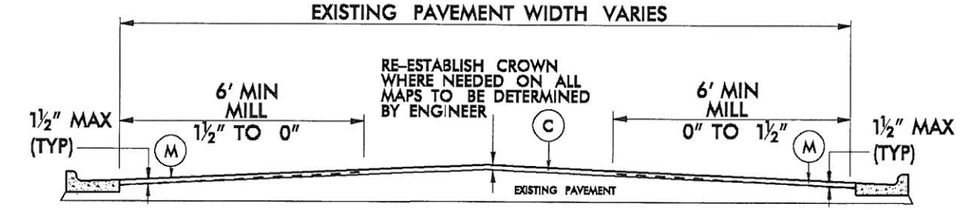


MILLING BRIDGE APPROACHES
(SEE BRIDGE DATA SHEET)

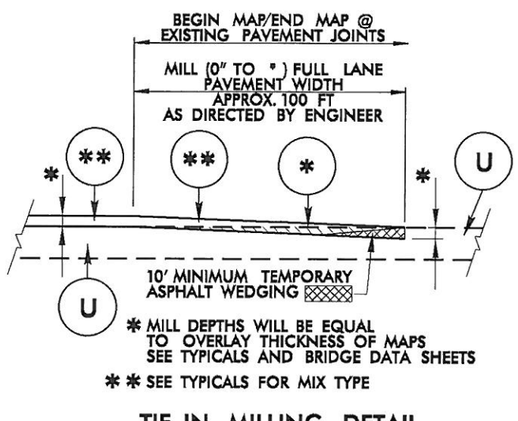


MILLING RAILROAD CROSSING APPROACHES



TYPICAL SECTION NO. 3
MAP NO. 2 SR 1703 MONROE ST

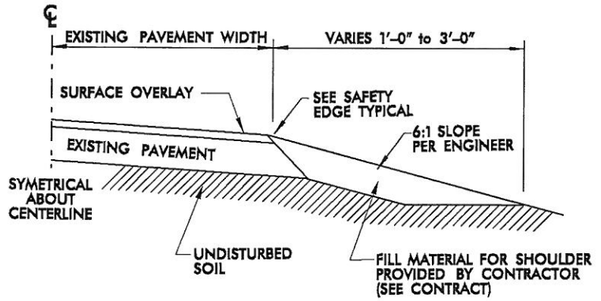
NOTE: All CURB AND GUTTER IS EXISTING



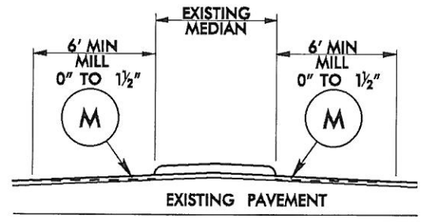
* MILL DEPTHS WILL BE EQUAL TO OVERLAY THICKNESS OF MAPS SEE TYPICALS AND BRIDGE DATA SHEETS

** SEE TYPICALS FOR MIX TYPE

TIE-IN MILLING DETAIL

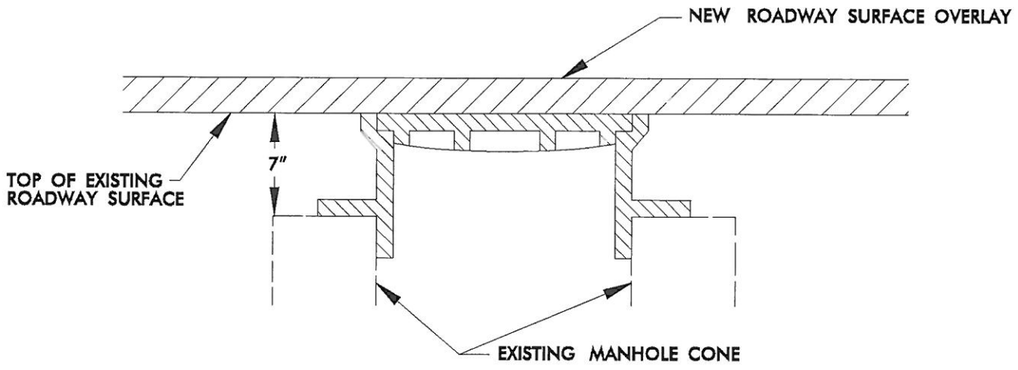


SHOULDER RECONSTRUCTION

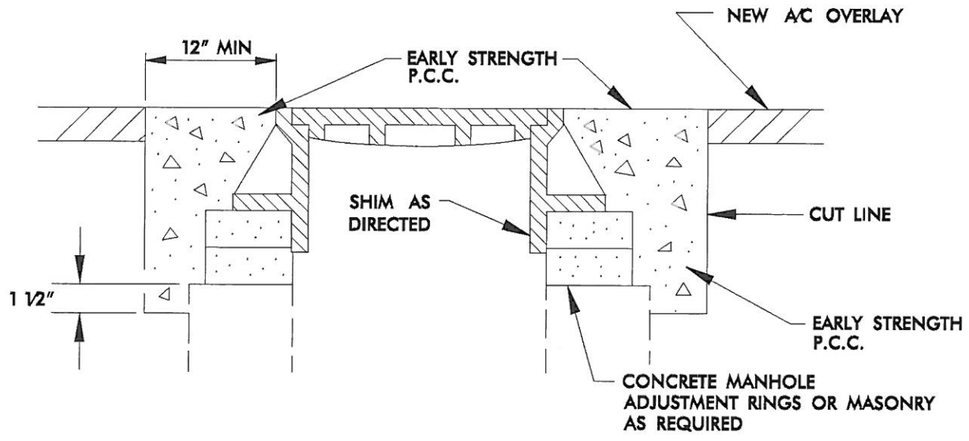


MILLING AT MEDIANS

PAVEMENT SCHEDULE	
C	PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, TO BE APPLIED AT AN AVERAGE RATE OF 168 LBS PER SQ YD
C1	PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, TO BE APPLIED AT AN AVERAGE RATE OF 168 LBS PER SQ YD
M	MILL ASPHALT PAVEMENT, 0 TO 1½" DEPTH
M1	MILL ASPHALT PAVEMENT, 1½" DEPTH
S	SHOULDER RECONSTRUCTION (SEE DETAIL)
U	EXISTING PAVEMENT



STEP 1



STEPS 2,3, & 4

STEP 1 COVER EXISTING MANHOLE WITH APPROVED MATERIAL AND CONSTRUCT OVERLAY ACROSS TOP OF MANHOLE

STEP 2 SAW CUT EXCAVATION AROUND MANHOLE 12" MIN. FROM MANHOLE FRAME.

STEP 3 RAISE MANHOLE FRAME RINGS TO FINISH PAVEMENT PROFILE AND CROSS SLOPE.

STEP 4 BACKFILL WITH EARLY STRENGTH P.C.C. TO DEPTHS AS DIRECTED.

MANHOLE ADJUSTMENT DETAIL

CONSTRUCTION NOTES:

1. ALL QUANTITIES ARE "ESTIMATED" AS INDICATED IN THE "SUMMARY OF QUANTITIES".

2. CONSTRUCTION SHALL PROGRESS IN PHASES, IN THE ORDER INDICATED BELOW:

   PHASE 1 – MILLING AND PATCHING (WHEN REQUIRED)
   PHASE 2 – LEVELING (AS DIRECTED BY ENGINEER)
   PHASE 3 – SURFACE OVERLAY
   PHASE 4 – SHOULDER DROP–OFF REPAIR (AS NEEDED AND DIRECTED BY ENGINEER)
   PHASE 5 – UTILITY ADJUSTMENTS (MANHOLE RING/COVER, VALVE/METER BOX RING/COVER, CATCH BASIN GRATE/COVER, DROP INLET GRATE/COVER, ETC.) WHEN REQUIRED.

3. BRIDGES THAT HAVE FLOOR DRAINS, SHALL HAVE ALL FLOOR DRAINS LEFT OPEN. EXTRA CARE SHALL BE EXERCISED IN MILLING (IF REQUIRED) AND IN PLACING THE WEARING SURFACE AROUND FLOOR DRAINS SO AS NOT TO HINDER EFFECTIVE DRAINAGE.

4. TEMPORARY ASPHALT WEDGING SHALL BE PLACED ON THE SAME DAY THAT BRIDGE AND/OR RAILROAD APPROACHES ARE MILLED (AND IF APPROACHES ARE MILLED PRIOR TO BRIDGE DECK).

5. SOME MAPS MAY REQUIRE EXTRA ASPHALT SURFACE (LEVELING) TO BE PLACED TO ELIMINATE UNEVEN PAVEMENT, WASHBOARDING OR TO RE–ESTABLISH THE CROWN. THE QUANTITY AND LOCATION OF THIS ITEM SHALL BE AS DIRECTED BY THE ENGINEER.

6. FOR TWO–LANE ROADWAYS – IT SHALL BE UNDERSTOOD THAT TYPICALLY ON A ROADWAY MEASURING 20 FEET OR LESS IN WIDTH, THE CENTER OF THE WHITE EDGELINE SHALL BE LOCATED SIX INCHES FROM THE EDGE OF PAVEMENT ON EITHER SIDE OF THE ROADWAY; ON A ROADWAY MEASURING 22 FEET IN WIDTH, TRAVEL LANES SHALL MEASURE 10 FEET AND THE WHITE EDGELINE SHALL BE LOCATED ONE FOOT FROM THE EDGE OF PAVEMENT ON EITHER SIDE; ON A ROADWAY MEASURING 24 FEET IN WIDTH, TRAVEL LANES SHALL MEASURE 11 FEET AND THE WHITE EDGELINE SHALL BE LOCATED ONE FOOT FROM THE EDGE OF PAVEMENT ON EITHER SIDE; ON A ROADWAY MEASURING 26 FEET OR MORE IN WIDTH, TRAVEL LANES SHALL MEASURE 12 FEET AND THE WHITE EDGELINE SHALL BE LOCATED NO LESS THAN ONE FOOT FROM THE EDGE OF PAVEMENT ON EITHER SIDE. THIS SHALL BE STANDARD PRACTICE UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

7. PAPER JOINTS ARE TO BE PLACED BETWEEN DAYS OF PAVING OPERATIONS AS SPECIFIED IN THE STANDARD SPECIFICATIONS SECTION 610–11.

8. ALL MILLED AREAS WILL BE PAVED WITHIN 72 HOURS UNLESS APPROVED BY THE ENGINEER.

9. REPLACE ANY PORTION OF STOP BARS AND OTHER PAVEMENT MARKINGS AT ANY INTERSECTION INCLUDING Y–LINES NOT ACTUALLY BEING PAVED OVER, THAT ARE OBLITERATED BY THE PAVING OPERATION EITHER BY HAULING WHEEL TRACKS OR TACK TRUCK BY THE END OF EACH RESURFACING OPERATION

Rowan County 2012 Resurfacing Bridge List

PROJECT NO.	SHEET NO.	TOTAL NO.
	4	

Map No.	Route No.	Route Name	Bridge No.	Feature Intersected	Floor Construction	Clear Roadway Width (Ft)	Horizontal Clearance Under (Ft.)	Vertical Clearance Under	Length (Ft)	Posting	Recommended Treatment, From Bridge Maintenance
1	US 29/US70	SOUTH MAIN STREET	41	US70/US601	8.5 RC SLAB	68	NA	16FT 07IN	165	NA	Mill approaches; Do not pave on bridge

2012_US 29_Monroe St_Rowan

PROJECT NO.	SHEET NO.	TOTAL NO.
PRIMARY, SECONDARY	5	

SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	FINAL SURFACE TESTING REQUIRED	LENGTH MI	WIDTH FT	SHOULDER BORROW CY	SHOULDER RECONSTRUCTION SMI	MILLING ASPHALT PAVEMENT, 0"TO 1 1/2" DEPTH SY	SURFACE COURSE, S9.5B TONS	SURFACE COURSE, S9.5C TONS	LEVELING COURSE, S9.5C TONS	ASPHALT BINDER FOR PLANT MIX TONS	ADJ. OF MANHOLES EA	ADJ. OF METER OR VALVE BOX EA
PRIMARY	Rowan	1	US 29 SOUTH MAIN STREET	US 29 FROM PAVEMENT JOINT 0.2 MILES SOUTH OF AIRPORT ROAD TO JAKE ALEXANDER BOULEVARD	1	NO	1.784	60	300	2.50	8,841		5,815	1,744	456	10	20
TOTAL FOR MAP NO. 1							**1.784**		**300**	**2.50**	**8,841**		**5,815**	**1,744**	**456**	**10**	**20**
TOTAL FOR PROJ NO. PRIMARY							**1.784**		**300**	**2.50**	**8,841**		**5,815**	**1,744**	**456**	**10**	**20**
SECONDARY	Rowan	2	SR 1703 MONROE STREET	FROM S. LONG STREET (SR 1002) TO FULTON STREET		NO	0.518	22			5,070	785			47	14	17
TOTAL FOR MAP NO. 2							**0.518**				**5,070**	**785**			**47**	**14**	**17**
TOTAL FOR PROJ NO. SECONDARY							**0.518**				**5,070**	**785**			**47**	**14**	**17**
GRAND TOTAL							**2.302**		**300**	**2.50**	**13,911**	**785**	**5,815**	**1,744**	**503**	**24**	**37**

NOTE: All Quantities listed include turn lanes and are estimates; Payment will be based on actual field measurements and quantities received.

PROJECT NO.	SHEET NO.	TOTAL NO.
PRIMARY, SECONDARY	6	

THERMOPLASTIC AND PAINT QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	LENGTH	WIDTH	4685000000-E 4" X 90 M WHITE THERMO LF	4686000000-E 4" X 120 M YELLOW THERMO LF	4686000000-E 4" X 120 M WHITE THERMO LF	4686000000-E 8" X 120 M WHITE THERMO LF	4705000000-E 16" X 120 M WHITE THERMO LF	4710000000-E 24" X 120 M WHITE THERMO LF	4721000000-E THERMO RXR 120 M EA	4725000000-E THERMO LT ARROW 90 M EA	4725000000-E THERMO STR ARROW 90 M EA	4725000000-E THERMO STR & RT ARROW 90 M EA	4725000000-E THERMO RT ARROW 90 M EA	4905000000-N SNOW PLOWABLE MARKERS EA
PRIMARY	Rowan	1	US 29 SOUTH MAIN STREET	US 29 FROM PAVEMENT JOINT 0.2 MILES SOUTH OF AIRPORT ROAD TO JAKE ALEXANDER BOULEVARD	1.784	60	18,839	23,549	9,732			341		54	4	4		471
TOTAL FOR MAP NO. 1					1.784		18,839	23,549	9,732			341		54	4	4		471
TOTAL FOR PROJ NO. PRIMARY					1.784		18,839	23,549	9,732			341		54	4	4		471
								33,281						62				
SECONDARY	Rowan	2	SR 1703 MONROE STREET	FROM S. LONG STREET (SR 1002) TO FULTON STREET	0.518	22		5,470	490	382	100	160	4	1			1	
TOTAL FOR MAP NO. 2					0.518			5,470	490	382	100	160	4	1			1	
TOTAL FOR PROJ NO. SECONDARY					0.518			5,470	490	382	100	160	4	1			1	
								6,342						2				
GRAND TOTAL					2.302		18,839	29,019	10,222	382	100	501	4	55	4	4	1	471
								39,623						64				

NOTE: All Quantities listed include turn lanes and are estimates; Payment will be based on actual field measurements and quantities received.